NOTES:

1. FOR GENERAL NOTES REFER TO 000-PR-PID-0001/0002/0003/0004.
2. ALL INSTRUMENT TAGS ARE PREFIXED WITH THE AREA NUMBER SHOWN ON THIS P&ID UNLESS OTHERWISE NOTED.
3. SPARE NOZZLE FOR INSTRUMENTATION BLANK FLANGE.
4. DELETED.
5. DISCHARGE PULSATION DAMPENER SUPPLIED WITH PUMP.
6. BURST HOSE DETECTION.
7. SAMPLE LINES TO BE SUSPENDED FROM CATENARY CABLES AND RUN DIRECT TO ANALYSER.
8. SIREN AND BEACON LIGHT INDICATING HIGH LEVEL IN HOPPER.

PROCESS WATER DISTRIBUTION 334-PR-PID-9027 — 150-WPA-SC1-307 — 167-P-006
PROCESS WATER DISTRIBUTION 334-PR-PID-9027 — 200-WPA-SC1-305
PROCESS WATER DISTRIBUTION 334-PR-PID-9027 — 50-WPA-SC1-856
25-WPA-SC1-559
2nd Cu CLEANER SCAV. COLUMN 4 334-FT-9008 — 334-PR-PID-9038 — 300-SPP-SL1-980 — 165-M-002
LIME RINGMAIN 334-PR-PID-9022 — 80-RHL-SC3-035 — 166-P-019
2nd Cu CLEANER SCAV. COLUMN 1 334-FT-9005 — 334-PR-PID-9009 — 300-SPP-SL1-367
2nd Cu CLEANER SCAV. COLUMN 2 334-FT-9006 — 334-PR-PID-9010 — 300-SPP-SL1-368 — 165-M-002
2nd Cu CLEANER SCAV. FEED DISTRIBUTION BOX 334-BX-9001 — 334-PR-PID-9008 — 400-SPP-SC3-371 — 165-M-001
2nd Cu CLEANER SCAV. COLUMN 3 334-FT-9007 — 334-PR-PID-9011 — 300-SPP-SL1-369 — 165-M-002
2nd Cu CLEANER SCAV. FEED DISTRIBUTION BOX 334-BX-9001 — 334-PR-PID-9008 — 400-SPP-SC3-366 — 165-M-001
2nd Cu CLEANER SCAV. TAIL HOPPER COLLECTOR PUMP 389-PP-9326 — 389-PR-PID-9302 — 12-RCL-PF2-309 — 271-M-020
2nd Cu CLEANER SCAV. TAIL HOPPER PROMOTER PUMP 389-PP-9119 — 389-PR-PID-9102 — 8-RCL-PF2-299 — 269-M-011
HP GLAND WATER 334-PR-PID-9024 — 25-WGS-SC1-141
HP GLAND WATER 334-PR-PID-9024 — 25-WGS-SC1-142 — 168-P-006

25BA1-04032 — DETAIL YV4 — YV 9147 — DETAIL VV1 — LV 9131 — (50BA1)
200BF3-04029 — 200BF3-04030 — 200x150 — (150BF3) — 200BF3-04031
25BA1-04034 — 25BA1-04035 — 25BA1-04036 — 25-WPA-SC1-857 — 25-WPA-SC1-858 — 25-WPA-SC1-859 — 200-WPA-SC1-305
SP-630 — SP-327 — SP-205 — SP-114 — SP-343
LIC 9132 — AIC 9133 — LIT 9132 — AIT 9133 — pH — SV 9139 — DETAIL SV1 — (25BA1)
150BF3-04025 — 150CH10-04026 — 150-WPA-SC1-307
DETAIL YV1 — YV 9136 — 40BA1-04027 — (150KG10)
630 OD * — TO GRADE — NOTE 3 DN50 — 165-M-005
YA 9140 — NOTE 8
DN500 — DN150 — DN50 — 40BA1-04016 — 40BA1-04015 — 150KG10-04014 — 334-HP-9004 — 150-SPP-SC1-405
* 500-SPP-SL1-2089 — 500-SPP-SL1-2088 — (500KG10) — YV 9134 — YV 9141 — YV 9135 — YV 9142 — YV 9143
334-PP-9019 — 25CH5-04018 — 40BA1-04689 — DN50 — 400x200
334-PP-9020 — 40BA1-04024 — 25CH5-04019
150-WPA-SC1-308 — 40BA1-04028
50-SPP-SC3-397 — 334-SA-9004 — 40BA1-04018 — 40BA1-04017 — 50DM3-04017 — 50x40 — 50-SPP-PE4-397 — 65x40 — 65x25 — 25BA1-04023
400-SPP-SL1-394 — 400-SPP-SL1-395 — 400-SPP-SL1-399
SC3 PE4 NOTE 7 SP-969 PE4 SC3 — SC3 PE4 NOTE 7 SP-970 — 40BA1-04022 — MULTI STREAM ANALYSER 333-SA-9001 — 333-PR-PID-9015 — 50-SPP-PE4-398
NOTE 5 — NOTE 6 — PSH — PAH — 334-PP-9023 — 165-M-011
DI 9138 — DIT 9138 — DE 9138 — FIC 9137 — FIT 9137 — FE 9137 — DX 9138 — FIT 9144 — FIC 9144 — FE 9144 — 165-M-006
400-SPP-SL1-396 — 165-P-009 — 2nd Cu CLEANER CELL 1 333-FT-9001 — 400-SPP-SL1-400 — 333-PR-PID-9007
1st Cu CLEANER FEED DISTRIBUTION BOX 333-BX-9001 — 400-SPP-SL1-395 — 333-PR-PID-9001 — 165-P-008 — 400-SPP-SL1-399 — 333-PR-PID-9001
DETAIL YV3 — YV 9001 — YV 9093 — YV 9226 — YV 9002 — YV 9227 — YV 9094 — (400KG10) — (100KG10) — TO GRADE

334-HP-9004 2nd Cu CLEANER SCAV. TAILS HOPPER
334-PP-9019 2nd Cu CLEANER SCAV. TAILS PUMP 1
334-PP-9020 2nd Cu CLEANER SCAV. TAILS PUMP 2
334-PP-9023 2nd Cu CLEANER SCAV. TAILS SAMPLE PUMP
334-SA-9004 2nd Cu CLEANER SCAV. TAILS SAMPLER

DRG No	REFERENCE DRAWINGS	REV	DATE	DESCRIPTION	DRN	CHK'D	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D
		1	19JAN18	UPDATED FOR DESIGN CHANGES	DB	NK	DB	SB	BG	LG	
		0	11FEB16	ISSUED FOR CONSTRUCTION	CB	GCP	DB	CK	BG	SM	

Minera Panamá

DRAWN	CHECKED	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D

CLIENT MPSA
PROJECT MINA DE COBRE PANAMA
FIRST QUANTUM MINERALS LTD.

Lycopodium
Lycopodium Minerals Pty Ltd ABN: 34 055 880 209
Level 5, 1 Adelaide Terrace, East Perth, Western Australia 6004
T: +61(0) 8 6210 5222 www.lycopodium.com.au

This drawing and its contents are confidential, are subject to return on demand and may not be copied or disclosed to any third party or used directly or indirectly for any other purpose than as determined in writing by Lycopodium Minerals Pty Ltd.

DRAWING TITLE
COPPER COLUMN FLOTATION
2nd Cu CLEANER SCAV. TAILS HOPPER
PIPING & INSTRUMENTATION DIAGRAM

SCALE	JOB No.	DRG No.	REV.
NTS	1824	334-PR-PID-9013	1

DRAWN CB — DATE 17JUL14